

RAW SEQUENCE LISTING

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Application Serial Number: 10/549,460
Source: PCT/10
Date Processed by STIC: 10/3/05

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PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,460

DATE: 10/03/2005

TIME: 14:10:42

Input Set : A:\ASZD-P01-852.txt

Output Set: N:\CRF4\10032005\J549460.raw

3 <110> APPLICANT: Dahl, Niklas
 5 <120> TITLE OF INVENTION: Genes Associated with Obesity and Methods for Using the Same
 7 <130> FILE REFERENCE: ASZD-P01-852
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/549,460
 C--> 9 <141> CURRENT FILING DATE: 2005-09-16
 9 <150> PRIOR APPLICATION NUMBER: GB 0306185
 10 <151> PRIOR FILING DATE: 2003-03-19
 12 <160> NUMBER OF SEQ ID NOS: 75
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 2986
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 21 <400> SEQUENCE: 1

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| 23 | ggaaaaaaaca tggagtgc | tcggcagcc cccgaccccg cgcgcagcga gccaggcagc | 120 |
| 24 | agcggcgccg acgcggccgc | cggctccagg gagaccccgc tgaaccagga atccgcccgc | 180 |
| 25 | aagagcgagc cgcctcccc | ggtgccgaga cagactt ccagcaccag cagagatgtat | 240 |
| 26 | gactttttc atgaactccc | agaaaactttt ccttctgatc cacctgagcc tctgccacat | 300 |
| 27 | tcccttattt | agcctgaaga agcttatatt gtgaagaata agcctgtgaa cctgtactgt | 360 |
| 28 | aaagcaagcc ctgcaccca | gatctatttc aagttaata gtgaatgggt tcatacagaag | 420 |
| 29 | gaccatag tagataaaag | atgtatggaa acttccggc tcattgtccg ggaagtggc | 480 |
| 30 | atttagattt cgcgcagca | atgttggac ctgaagatta ctggccag | 540 |
| 31 | tgttgtggcct ggagctccgc | gggttaccaca aagagccgga aggctatgt gcgcattgca | 600 |
| 32 | tatctacgga agacatttga | gcaggaaccc ctaggaaagg aagtgtctt ggaacaggaa | 660 |
| 33 | gtcttactcc agtgcgacc | acctgaaggg atcccagtgg ctgaggtgaa atgggtgaaa | 720 |
| 34 | aatgaagaca taatttgc | cgttgaagat cggaaattt atattactat tgatcacaac | 780 |
| 35 | ctcatcataa agcagcccc | actctctgtat actgcaaatt acacctgtgt tgccaaaaac | 840 |
| 36 | atttttgcctt agaggaaaag | tacaactgccc actgtcatag tctatgtcaa cggtggctgg | 900 |
| 37 | tccaccttgc | cgagggtgc ttgtgttac agccgtgtg gacgagggtt tcagaaacgt | 960 |
| 38 | acaaggactt gtaccaaccc | ggcaccactt aatgggggtg cttctgtga agggcagagt | 1020 |
| 39 | gtgcagaaaa tagcctgtac | tacgttatgc ccagtggatg gcaggtggac gccatggagc | 1080 |
| 40 | aagtggctta cttgtgaac | ttagtgcacc cactgcgcac ggagggagtg cacggccca | 1140 |
| 41 | gcccccaaga atggaggcaa | ggactgcgac ggcctcttgc tgcaatccaa gaactgcact | 1200 |
| 42 | gatgggtttt gcatgcagag | tttcattttt cccatttcaa ctgaacagag aaccagaat | 1260 |
| 43 | gaatatggat ttcttctgc | tctgttca gatgtgttg ctctctatgt tggattgtg | 1320 |
| 44 | atagcagtga tcgttgcct | ggcgatctct gtgttgcgg cttgtttgt gtatcgaaag | 1380 |
| 45 | aatcatcgtt | actttgagtc agatattt gactttcg cactcaatgg gggcttcag | 1440 |
| 46 | cctgtgaaca tcaaggcgc | aagacaagat ctgctggctg taccggcaga cctcacgtca | 1500 |
| 47 | gctgcagcca tgtacagagg | acctgtctat gcccgcattt acgtctcaga caaaatccca | 1560 |
| 48 | atgaccaact ctccattct | ggatccactg cccaaacttga aaatcaaagt gtacaacacc | 1620 |
| 49 | tcaagggtctg tcaccccca | agatgacctc tctgagttt cgtccaaagt gtccctcag | 1680 |
| 50 | atgacccagt cggtgttga | aatgaagcc ctcagcctga agaaccagag tctagcaagg | 1740 |

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| 51 | cagactgtac | catcctgtac | cgcattggc | agcttcaact | caactggagg | tcaccatttt | 1800 |
| 52 | gttcccaatt | caggagttag | cttgctgatt | cccgctgggg | ccattccccca | agggagagtc | 1860 |
| 53 | tacaaaatgt | atgtgactgt | acacaggaaa | gaaactatga | gcccacccat | ggatgactct | 1920 |
| 54 | cagacacttt | tgaccctgt | ggtgagctgt | gggccccag | gagctctgt | caccggcccc | 1980 |
| 55 | gtcgctctca | ctatgcatca | ctgcgcagac | cccaataccg | aggactggaa | aatactgctc | 2040 |
| 56 | aagaaccagg | cagcacaggg | acagtggag | gatgtggtgg | ttgtcgggaa | ggaaaacttc | 2100 |
| 57 | accacccctt | gctacattca | gctggatgca | gaggcctgcc | acatcctcac | agagaacctc | 2160 |
| 58 | agcacctacg | ccctggtagg | acattccacc | accaaagcgg | ctgcaaagcg | cctcaagctg | 2220 |
| 59 | gccatctttg | ggcccctgtg | ctgctcctcg | ctggagtaca | gcatccgagt | ctactgtctg | 2280 |
| 60 | gatgacaccc | aggatcccct | gaaggaaatt | ttacatcttg | agagacagac | gggaggacag | 2340 |
| 61 | ctcttagaag | aacctaaggc | tcttcatttt | aaaggcagca | cccacaacct | gegcctgtca | 2400 |
| 62 | attcacgata | tcgcccattc | cctctggaaag | agcaaattgc | tggctaaata | tcagaaattt | 2460 |
| 63 | ccattttacc | atgtttggag | tggatctcaa | agaaacctgc | actgcaccc | cactctggaa | 2520 |
| 64 | agathtagcc | tgaacacagt | ggagctgggt | tgcaaactct | gtgtcggca | ggtggaagga | 2580 |
| 65 | gaagggcaga | tcttccagct | caactgcacc | gtgtcagagg | aacctactgg | catcgatttg | 2640 |
| 66 | ccgctgctgg | atcctgcgaa | caccatcacc | acggtcacgg | ggcccagtc | tttcagcatc | 2700 |
| 67 | cctctcccta | tccggcagaa | gctctgtagc | agcctggatg | ccccccagac | gagaggccat | 2760 |
| 68 | gactggagga | tgctggccca | taagctgaac | ctggacaggt | acttgaatta | ctttgccacc | 2820 |
| 69 | aaatccagcc | caactggcgt | aatcctggat | ctttggaaag | cacagaacct | cccagatgg | 2880 |
| 70 | aacctgagca | tgctggcagc | tgtcttgaa | gaaatggaa | gacatgaaac | ggtgggttcc | 2940 |
| 71 | ttagcagcag | aagggcagta | ttaaccacca | tgctgaaagg | ggaaat | | 2986 |

74 <210> SEQ ID NO: 2

75 <211> LENGTH: 964

76 <212> TYPE: PRT

77 <213> ORGANISM: Homo sapiens

79 <400> SEQUENCE: 2

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| 80 | Met | Glu | Ser | Ala | Pro | Ala | Ala | Pro | Asp | Pro | Ala | Ala | Ser | Glu | Pro | Gly |
| 81 | 1 | | | 5 | | | | 10 | | | | | 15 | | | |
| 83 | Ser | Ser | Gly | Ala | Asp | Ala | Ala | Ala | Gly | Ser | Arg | Glu | Thr | Pro | Leu | Asn |
| 84 | | | | 20 | | | | 25 | | | | | 30 | | | |
| 86 | Gln | Glu | Ser | Ala | Arg | Lys | Ser | Glu | Pro | Pro | Ala | Pro | Val | Arg | Arg | Gln |
| 87 | | | | 35 | | | | 40 | | | | | 45 | | | |
| 89 | Ser | Tyr | Ser | Ser | Thr | Ser | Arg | Asp | Asp | Asp | Phe | Phe | His | Glu | Leu | Pro |
| 90 | | | | 50 | | | | 55 | | | | | 60 | | | |
| 92 | Glu | Thr | Phe | Pro | Ser | Asp | Pro | Pro | Glu | Pro | Leu | Pro | His | Phe | Leu | Ile |
| 93 | | 65 | | | 70 | | | 75 | | | | | 80 | | | |
| 95 | Glu | Pro | Glu | Glu | Ala | Tyr | Ile | Val | Lys | Asn | Lys | Pro | Val | Asn | Leu | Tyr |
| 96 | | | | | 85 | | | 90 | | | | | 95 | | | |
| 98 | Cys | Lys | Ala | Ser | Pro | Ala | Thr | Gln | Ile | Tyr | Phe | Lys | Cys | Asn | Ser | Glu |
| 99 | | | | | 100 | | | 105 | | | | | 110 | | | |
| 101 | Trp | Val | His | Gln | Lys | Asp | His | Ile | Val | Asp | Glu | Arg | Val | Asp | Glu | Thr |
| 102 | | | | 115 | | | | 120 | | | | | 125 | | | |
| 104 | Ser | Gly | Leu | Ile | Val | Arg | Glu | Val | Ser | Ile | Glu | Ile | Ser | Arg | Gln | Gln |
| 105 | | | | 130 | | | | 135 | | | | | 140 | | | |
| 107 | Val | Glu | Glu | Leu | Phe | Gly | Pro | Glu | Asp | Tyr | Trp | Cys | Gln | Cys | Val | Ala |
| 108 | | 145 | | | 150 | | | 155 | | | | | 160 | | | |
| 110 | Trp | Ser | Ser | Ala | Gly | Thr | Thr | Lys | Ser | Arg | Lys | Ala | Tyr | Val | Arg | Ile |
| 111 | | | | | 165 | | | 170 | | | | | 175 | | | |
| 113 | Ala | Tyr | Leu | Arg | Lys | Thr | Phe | Glu | Gln | Glu | Pro | Leu | Gly | Lys | Glu | Val |

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Input Set : A:\ASZD-P01-852.txt
Output Set: N:\CRF4\10032005\J549460.raw

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| 114 | 180 | 185 | 190 |
| 116 | Ser Leu Glu Gln Glu Val | Leu Leu Gln Cys Arg Pro Pro Glu Gly Ile | |
| 117 | 195 | 200 | 205 |
| 119 | Pro Val Ala Glu Val Glu Trp | Leu Lys Asn Glu Asp Ile Ile Asp Pro | |
| 120 | 210 | 215 | 220 |
| 122 | Val Glu Asp Arg Asn Phe Tyr Ile Thr Ile Asp His Asn Leu Ile Ile | | |
| 123 | 225 | 230 | 235 |
| 125 | Lys Gln Ala Arg Leu Ser Asp Thr Ala Asn Tyr Thr Cys Val Ala Lys | | |
| 126 | 245 | 250 | 255 |
| 128 | Asn Ile Val Ala Lys Arg Lys Ser Thr Thr Ala Thr Val Ile Val Tyr | | |
| 129 | 260 | 265 | 270 |
| 131 | Val Asn Gly Gly Trp Ser Thr Trp Thr Glu Trp Ser Val Cys Asn Ser | | |
| 132 | 275 | 280 | 285 |
| 134 | Arg Cys Gly Arg Gly Tyr Gln Lys Arg Thr Arg Thr Cys Thr Asn Pro | | |
| 135 | 290 | 295 | 300 |
| 137 | Ala Pro Leu Asn Gly Gly Ala Phe Cys Glu Gly Gln Ser Val Gln Lys | | |
| 138 | 305 | 310 | 315 |
| 140 | Ile Ala Cys Thr Thr Leu Cys Pro Val Asp Gly Arg Trp Thr Pro Trp | | |
| 141 | 325 | 330 | 335 |
| 143 | Ser Lys Trp Ser Thr Cys Gly Thr Glu Cys Thr His Trp Arg Arg Arg | | |
| 144 | 340 | 345 | 350 |
| 146 | Glu Cys Thr Ala Pro Ala Pro Lys Asn Gly Gly Lys Asp Cys Asp Gly | | |
| 147 | 355 | 360 | 365 |
| 149 | Leu Val Leu Gln Ser Lys Asn Cys Thr Asp Gly Leu Cys Met Gln Ser | | |
| 150 | 370 | 375 | 380 |
| 152 | Phe Ile Tyr Pro Ile Ser Thr Glu Gln Arg Thr Gln Asn Glu Tyr Gly | | |
| 153 | 385 | 390 | 395 |
| 155 | Phe Ser Ser Ala Pro Asp Ser Asp Asp Val Ala Leu Tyr Val Gly Ile | | |
| 156 | 405 | 410 | 415 |
| 158 | Val Ile Ala Val Ile Val Cys Leu Ala Ile Ser Val Val Val Ala Leu | | |
| 159 | 420 | 425 | 430 |
| 161 | Phe Val Tyr Arg Lys Asn His Arg Asp Phe Glu Ser Asp Ile Ile Asp | | |
| 162 | 435 | 440 | 445 |
| 164 | Ser Ser Ala Leu Asn Gly Gly Phe Gln Pro Val Asn Ile Lys Ala Ala | | |
| 165 | 450 | 455 | 460 |
| 167 | Arg Gln Asp Leu Leu Ala Val Pro Pro Asp Leu Thr Ser Ala Ala Ala | | |
| 168 | 465 | 470 | 475 |
| 170 | Met Tyr Arg Gly Pro Val Tyr Ala Leu His Asp Val Ser Asp Lys Ile | | |
| 171 | 485 | 490 | 495 |
| 173 | Pro Met Thr Asn Ser Pro Ile Leu Asp Pro Leu Pro Asn Leu Lys Ile | | |
| 174 | 500 | 505 | 510 |
| 176 | Lys Val Tyr Asn Thr Ser Gly Ala Val Thr Pro Gln Asp Asp Leu Ser | | |
| 177 | 515 | 520 | 525 |
| 179 | Glu Phe Thr Ser Lys Leu Ser Pro Gln Met Thr Gln Ser Leu Leu Glu | | |
| 180 | 530 | 535 | 540 |
| 182 | Asn Glu Ala Leu Ser Leu Lys Asn Gln Ser Leu Ala Arg Gln Thr Asp | | |
| 183 | 545 | 550 | 555 |
| 185 | Pro Ser Cys Thr Ala Phe Gly Ser Phe Asn Ser Leu Gly Gly His Leu | | |
| 186 | 565 | 570 | 575 |

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Input Set : A:\ASZD-P01-852.txt
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188 Ile Val Pro Asn Ser Gly Val Ser Leu Leu Ile Pro Ala Gly Ala Ile
 189 580 585 590
 191 Pro Gln Gly Arg Val Tyr Glu Met Tyr Val Thr Val His Arg Lys Glu
 192 595 600 605
 194 Thr Met Arg Pro Pro Met Asp Asp Ser Gln Thr Leu Leu Thr Pro Val
 195 610 615 620
 197 Val Ser Cys Gly Pro Pro Gly Ala Leu Leu Thr Arg Pro Val Val Leu
 198 625 630 635 640
 200 Thr Met His His Cys Ala Asp Pro Asn Thr Glu Asp Trp Lys Ile Leu
 201 645 650 655
 203 Leu Lys Asn Gln Ala Ala Gln Gly Gln Trp Glu Asp Val Val Val Val
 204 660 665 670
 206 Gly Glu Glu Asn Phe Thr Thr Pro Cys Tyr Ile Gln Leu Asp Ala Glu
 207 675 680 685
 209 Ala Cys His Ile Leu Thr Glu Asn Leu Ser Thr Tyr Ala Leu Val Gly
 210 690 695 700
 212 His Ser Thr Thr Lys Ala Ala Ala Lys Arg Leu Lys Leu Ala Ile Phe
 213 705 710 715 720
 215 Gly Pro Leu Cys Cys Ser Ser Leu Glu Tyr Ser Ile Arg Val Tyr Cys
 216 725 730 735
 218 Leu Asp Asp Thr Gln Asp Ala Leu Lys Glu Ile Leu His Leu Glu Arg
 219 740 745 750
 221 Gln Thr Gly Gly Gln Leu Leu Glu Glu Pro Lys Ala Leu His Phe Lys
 222 755 760 765
 224 Gly Ser Thr His Asn Leu Arg Leu Ser Ile His Asp Ile Ala His Ser
 225 770 775 780
 227 Leu Trp Lys Ser Lys Leu Leu Ala Lys Tyr Gln Glu Ile Pro Phe Tyr
 228 785 790 795 800
 230 His Val Trp Ser Gly Ser Gln Arg Asn Leu His Cys Thr Phe Thr Leu
 231 805 810 815
 233 Glu Arg Phe Ser Leu Asn Thr Val Glu Leu Val Cys Lys Leu Cys Val
 234 820 825 830
 236 Arg Gln Val Glu Gly Glu Gln Ile Phe Gln Leu Asn Cys Thr Val
 237 835 840 845
 239 Ser Glu Glu Pro Thr Gly Ile Asp Leu Pro Leu Leu Asp Pro Ala Asn
 240 850 855 860
 242 Thr Ile Thr Thr Val Thr Gly Pro Ser Ala Phe Ser Ile Pro Leu Pro
 243 865 870 875 880
 245 Ile Arg Gln Lys Leu Cys Ser Ser Leu Asp Ala Pro Gln Thr Arg Gly
 246 885 890 895
 248 His Asp Trp Arg Met Leu Ala His Lys Leu Asn Leu Asp Arg Tyr Leu
 249 900 905 910
 251 Asn Tyr Phe Ala Thr Lys Ser Ser Pro Thr Gly Val Ile Leu Asp Leu
 252 915 920 925
 254 Trp Glu Ala Gln Asn Phe Pro Asp Gly Asn Leu Ser Met Leu Ala Ala
 255 930 935 940
 257 Val Leu Glu Glu Met Gly Arg His Glu Thr Val Val Ser Leu Ala Ala
 258 945 950 955 960
 260 Glu Gly Gln Tyr

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Input Set : A:\ASZD-P01-852.txt
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264 <210> SEQ ID NO: 3
 265 <211> LENGTH: 2780
 266 <212> TYPE: DNA
 267 <213> ORGANISM: Homo sapiens
 269 <400> SEQUENCE: 3
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 272 agccggcgcg acgcgcgcgc cggctccagg gagaccccg tgaaccagg atccgccccgc 180
 273 aagagc gaggc cgcctgcccc ggtgcgcaga cagactt ccagcaccag cagagatgat 240
 274 gacttttttc atgaactccc agaaaactttt cttctgatc cacctgagcc tctgccat 300
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 276 aaagcaagcc ctgccc accca gatctattt aagtgttaata gtgaatgggt tcattcagaag 420
 277 gaccacatag tagatgaaag agtagatgaa acttccggc tcattgtccg ggaagtgagc 480
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VERIFICATION SUMMARY

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Input Set : A:\ASZD-P01-852.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date